

# Tennessee Department of Environment and Conservation

**Division of Water Resources** 

### William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue, 11th Floor, Nashville, Tennessee 37243 SEP 3 0 2015 1-888-891-8332 (TDEC)

# Municipal Separate Storm Sewer System (MS4) Annual Report

1.	MS4 Information			ENVIRONMEI COOKEVI	NT & CONSERVATION LLE FIELD OFFICE		
Cit	ty of Crossville	TNS079	TNS079987				
Na	ame of MS4	MS4 Per	mit Number				
Не	eath Blaylock	heath.bla	heath.blaylock@crossvilletn.gov				
Na	ame of Contact Person	Email A	ddress				
93	1-456-6947						
Tel	elephone (including area code)						
392	2 N. Main St.						
Ma	ailing Address						
-	rossville	TN	38555	_			
Cit	ty	State	ZIP code				
Wł	hat is the current population of your MS4?	1,200					
Wł	hat is the reporting period for this annual report?	From 2014	to 2015				
2.	WATER QUALITY PRIORITIES (SECTION 3.1)						
	A. Does your MS4 discharge into waters listed 303(d) list and/or according to the on-line GIS n	•	I's most current	⊠ Ye	es 🗆 No		
	B. If yes, please attach a list all impaired water	ers within your juris	dictional area.				
	C. Does your MS4's jurisdictional area contain other than pathogens, siltation and habitat a	•		en approved	-		
	D. Does your MS4 discharge to any Exception National Resource Waters (ONRWs)? If y	•	, -	⊠Y	es 🗆 No		
	E. Are you implementing additional specific p ETWs or ONRWS located within your juris		the continued integrit	ty of 🛛 Y	es 🔲 No		
3. F	PROTECTION OF STATE OR FEDERALLY LISTE	D SPECIES (SECTIO	on 3.2.1 General Peri	nit for Phas	e II MS4s)		
	A. Are there any state or federally listed species	es within the MS4's	jurisdiction?	⊠ Yes	□No		
	B. Are any of the MS4 discharges or discharge any state or federally listed species?	e-related activities l	ikely to jeopardize	☐ Yes	⊠ No		
	C. Please attach any authorizations or determine discharges on state or federally listed species	•	n & Wildlife Service	on the effect	of the MS4		
4.	PUBLIC EDUCATION AND PUBLIC PARTICIPAT	TION (SECTION 4.2	.1 AND 4.2.2)				
	A. Have you developed a Public Information a	nd Education plan (	(PIE)?	⊠ Y	es 🗆 No		
	B. Is your public education program targeting pollutants, such as Hot Spots?	specific pollutants	and sources of those	⊠ Y	es 🗆 No		
	C. If yes, what are the specific causes, sources	and/or pollutants a	ddressed by your publ	lic education	program? Silt		

	D.	Note specific successful <u>outcome(s)</u> (NOT tasks, events, publications) fully or partially attreducation program during this reporting period. <u>Stormwater is a common word now in this years back nobody especially contractors, knew what stormwater meant.</u> Now its a commonotices and strives to improve.	community. A	few
	E.	Do you have an advisory committee or other body comprised of the public and other stakeholders that provides regular input on your stormwater program?	⊠ Yes	□No
	F.	How do you facilitate, advertise, and publicize public involvement and participation opportunity water bills, pamphlet hand outs to contractors. New for this year we will be trying radio ad		hures in
	G.	Do you have a webpage dedicated to your stormwater program?	⊠ Yes	□No
		If so, what is the link/URL: http://www.crossvilletn.gov/index.php/departments/engineering-planning/stormwater-ms4-program		
	H.	Are you tracking and maintaining records of public education, outreach, involvement and participation activities? Please attach a summary of these activities.	⊠ Yes	□No
5.	ILL	ICIT DISCHARGE DETECTION AND ELIMINATION (SECTION 4.2.3)		
	A.	Have you completed a map of all outfalls and receiving waters of your storm sewer system?	⊠ Yes	□No
	B.	Have you completed a map of all storm drain pipes of storm sewer system?	⊠Yes	⊠ No
	C.	How many outfalls have you identified in your system? 500		
	D.	Have any of these outfalls been screened for dry weather discharges?	⊠Yes	□No
	F.	What is your frequency for screening outfalls for illicit discharges? <u>Anually</u>		
	G.	Do you have an ordinance that effectively prohibits illicit discharges?	⊠ Yes	□No
	H.	During this reporting period, how many illicit discharges/illegal connections have you discreported to you)? $\underline{2}$	overed (or bee	n
	I.	Of those illicit discharges/illegal connections that have been discovered or reported, how meliminated? $\underline{2}$	nany have beer	ı
6.	Co	NSTRUCTION SITE STORMWATER RUNOFF (SECTION 4.2.4)		
	A.	Do you have an ordinance or adopted policies stipulating:		
		Erosion and sediment control requirements?	⊠ Yes	□ No
		Other construction waste control requirements?	⊠ Yes	□No
		Requirement to submit construction plans for review?	⊠ Yes	□No
		MS4 enforcement authority?	⊠ Yes	□No
	B.	How many active construction sites disturbing at least one acre were there in your jurisdict period? (14)	ion this reporti	ing
	C.	How many of these active sites did you inspect this reporting period? (11) 3 sites have	not started wo	<u>ork</u>
	D.	On average, how many times each, or with what frequency, were these sites inspected (e.g., weekly, monthly, etc.)?	Twice weel after every event.	8
	E.	Do you prioritize certain construction sites for more frequent inspections?	⊠Yes	□No

6.

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If Yes, based on what criteria? Location to impaired waters and type of construction

7	. PE	RMANENT STORMWATER CONTROLS (SECTION 4.2.5)						
	A.	Do you have an ordinance or other mechanism to require:						
		Site plan reviews of all new and re-development projects?	⊠ Yes	□ No				
		Maintenance of stormwater management controls?	⊠ Yes	□ No				
		Retrofitting of existing BMPs with green infrastructure BMPs?	☐ Yes	⊠ No				
	В	What is the threshold for new/redevelopment stormwater plan review? (e.g., all projects, greater than one acre, etc.) Projects disturbing more than one acre and any commercial projects.		_				
	C.	Have you implemented and enforced performance standards for permanent stormwater controls?	☐ Yes	⊠ No				
	D.	Do these performance standards go beyond the requirements found in Section 4.2.5.2 and development hydrology be met for:	d require that p	re-				
		Flow volumes	⊠ Yes	□ No				
		Peak discharge rates	⊠ Yes	□ No				
		Discharge frequency	⊠ Yes	□ No				
		Flow duration	⊠ Yes	□ No				
	E.	Please provide the URL/reference where all permanent stormwater management standard	ll permanent stormwater management standards can be found.					
		(N/A) the City of Crossville was approved for a year extention for permanent stormwater management						
	F.	How many development and redevelopment project plans were reviewed for this reporting	ng period?	N/A				
	G.	How many development and redevelopment project plans were approved? $\underline{N/A}$						
	H.	How many permanent stormwater management practices/facilities were inspected?	<u>N/A</u>					
	I.	How many were found to have inadequate maintenance? N/A						
	J.	Of those, how many were notified and remedied within 30 days? (If window is different specify) $\underline{N/A}$	than 30 days, p	olease				
	K.	How many enforcement actions were taken that address inadequate maintenance? $\underline{0}$						
	L.	Do you use an electronic tool (e.g., GIS, database, spreadsheet) to track post-construction BMPs, inspections and maintenance?	⊠ Yes	□No				
	M.	Do all municipal departments and/or staff (as relevant) have access to this tracking system?	⊠ Yes	□ No				
	N.	Has the MS4 developed a program to allow for incentive standards for redeveloped sites?	☐ Yes	⊠ No				
	O.	How many maintenance agreements has the MS4 approved during the reporting period?	1					
8.	Col	DES AND ORDINANCES REVIEW AND UPDATE (SECTION 4.2.5.3)						
	A.	Is a completed copy of the EPA Water Quality Scorecard submitted with this report?	☐ Yes	⊠ No				
	B.	Include status of implementation of code, ordinance and/or policy revisions associated w	ith permanent					

9. STORMWATER MANAGEMENT FOR MUNICIPAL OPERATIONS (SECTION 4.2.6)

stormwater management.N/A an Ordinance is still in the works since we were granted and extention

	Transcription Separate Storm Several System (1728 1) Immunitation		
A.	Have stormwater pollution prevention plans (or an equivalent plan) been developed for:		
	All parks, ball fields and other recreational facilities	⊠ Yes	□ No
	All municipal turf grass/landscape management activities	⊠ Yes	□No
	All municipal vehicle fueling, operation and maintenance activities	⊠ Yes	□No
	All municipal maintenance yards	⊠ Yes	□No
	All municipal waste handling and disposal areas	⊠ Yes	□ No
B.	Are stormwater inspections conducted at these facilities?	⊠ Yes	□No
	1. If Yes, at what frequency are inspections conducted? Anually or as needed.		
C.	Have standard operating procedures or BMPs been developed for all MS4 field activities? (e.g., road repairs, catch basin cleaning, landscape management, etc.)	⊠ Yes	□No
D.	Do you have a prioritization system for storm sewer system and permanent BMP inspections?	⊠ Yes	□No
E.	On average, how frequently are catch basins and other inline treatment systems inspected?	<u>Anuall</u>	У
F.	On average, how frequently are catch basins and other inline treatment systems cleaned out needed. We run a sweeper truck every night to clean roads and gutters	/maintained?	<u>As</u>
G.	Do municipal employees in all relevant positions and departments receive comprehensive training on stormwater management?	⊠ Yes	□ No
H.	If yes, do you also provide regular updates and refreshers?	⊠ Yes	□No
	If so, how frequently and/or under what circumstances? We do refreshers or new out. We like to get someone every year to take the level 1 Stormwater class. There is no with the level 1 Certification.		
STO	DRMWATER MANAGEMENT PROGRAM UPDATE (SECTION 4.4)		
A.	Describe any changes to the MS4 program during the reporting period including but not lim	ited to:	
	Changes adding (but not subtracting or replacing) components, controls or other requirements.  Changing our buffers for streams from 25ft to 30ft to meet state requirements.	nts (Section 4.	4.2.a).
	Changes to replace an ineffective or unfeasible BMP (Section 4.4.2.b). No changes.		
	Information (a and ditional assessment systems DMDs) on an account and average based on	annovation or	n 0111/1

# 10.

Information (e.g. additional acreage, outfalls, BMPs) on program area expansion based on annexation or newly urbanized areas. A total of 84 acres of annexation

Changes to the program as required by the division (Section 4.4.3). <u>Developing Permanent Stormwater Ordinance</u>

# 11. EVALUATING/MEASURING PROGRESS

What indicators do you use to evaluate the overall effectiveness of your Stormwater Management Program, how long have you been tracking them, and at what frequency? Note that these are not measurable goals for individual BMPs or tasks, but large-scale or long-term metrics for the overall program, such as in-stream macroinvertebrate community indices, measures of effective impervious cover in the watershed, indicators of in-stream hydrologic stability, etc.

Indicator	Began Tracking (year)	Frequency	<b>Number of Locations</b>
Example: E. coli	2003	Weekly April–September	20
Benthics	2011	Anually	6

	2011	5 Sample	es	6	
include a comparisor data from Obed Water	of data (e.g., water qual ance of permanent stor in of current and past pe ershed Community to the ing our streams and trib	mwater controls insta rmanent stormwater of he City of Crossvilles	lled throughout the syscontrol practices. We a	tem. This eval	uation may isual stream
2. ENFORCEMENT (SECT	ION 4.5)				
number of actions,	he following types of e the minimum measure th you do not have auth  Construction	(e.g., construction, illority:  Permanent Stormwater	-		r control) or
	440	Controls	J		
Notice of violation	# <u>3</u>	# <u>0</u>	# <u>1</u>	⊠ Yes	☐ No
Administrative fines	# <u>0</u>	# <u>0</u>	# <u>0</u>	⊠ Yes	☐ No
Stop Work Orders	# <u>0</u>	# <u>O</u>	# <u>0</u>	⊠ Yes	☐ No
Civil penalties	# <u>0</u>	# <u>0</u>	# <u>0</u>	⊠ Yes	□ No
Cuiminal actions	# <u>0</u>	# <u>0</u>	# <u>0</u>	☐ Yes	⊠ No
Criminal actions	# <u>0</u>	# <u>0</u>	# <u>0</u>	⊠ Yes	□ No
Administrative orders					
	# <u>0</u>	# <u>0</u>	# <u>0</u>		
Administrative orders  Other  B. Do you use an elec		lata base, spreadsheet	) to track the locations	' ⊠ Yes	

# 13

- past reporting period? \$165,370.00
- What is next year's budget for implementing the requirements of your MS4 NPDES permit and SWMP? В. \$138,325.00
- C. Do you have an independent financing mechanism for your stormwater program? ☐ Yes ⊠ No
- If so, what is it/are they (e.g., stormwater fees), and what is the annual revenue derived from this mechanism? D.

Source: N/A

Amount \$

Source: N/A

Amount \$

How many full time employees does your municipality devote to the stormwater program (specifically for implementing the stormwater program vs. municipal employees with other primary responsibilities that dovetail with stormwater issues)?

F. Do you share program implementation responsibilities with any other entities?			☐ Yes	⊠ No
Entity	Activity/Task/Responsibility	Your Oversight/Accou	ntability Mecha	nism
N/A				
N/A				
N/A				

# 14. CERTIFICATION

This report must be signed by a ranking elected official or by a duly authorized representative of that person. See signatory requirements in sub-part 6.7.2 of the permit.

"I certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision. The submitted information is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury."

Trinted Name and Title

Annual reports must be submitted in accordance with the requirements of Section 5.4. (Reporting) of the permit. Annual reports must be submitted to the appropriate Environmental Field Office (EFO) by September 30 of each calendar year, as shown in the table below:

EFO	Street Address	City	Zip Code	Telephone
Chattanooga	540 McCallie Avenue STE 550	Chattanooga	37402	(423) 634-5745
Columbia	1421 Hampshire Pike	Columbia	38401	(931) 380-3371
Cookeville	1221 South Willow Ave.	Cookeville	38506	(931) 432-4015
Jackson	1625 Hollywood Drive	Jackson	38305	(731) 512-1300
Johnson City	2305 Silverdale Road	Johnson City	37601	(423) 854-5400
Knoxville	3711 Middlebrook Pike	Knoxville	37921	(865) 594-6035
Memphis	8383 Wolf Lake Drive	Bartlett	38133	(901) 371-3000
Nashville	711 R S Gass Boulevard	Nashville	37216	(615) 687-7000

G. Please attach a copy of your Organizational Chart

# Town Branch

Field Parameters: (August 2015)

pH 7.61

DO 11.3

T 70.2 Degrees Farenheit

EC 190

Turbidity 210

Flow 1.20 cfs

# One Mile Creek

Field Parameters: (August 2015)

pH 7.66

DO 9.6

T 69.0 Degrees Farenheit

EC 153

Turbidity 195

Flow 2.20 cfs

# Little Obed

Field Parameters: (August 2015)

pH 7.49

DO 10.3

T 72.5 Degrees Farenheit

EC 228

Turbidity 122

Flow 3.2 cfs

# Byrd Creek

Field Parameters: (August 2015)

pH 7.6

DO 8.8

T 75.0 Degrees Farenheit

EC 239

Turbidity 145

Flow 6.4 cfs

# Obed River

Field Parameters: (August 2015)

pH 7.7

DO 8.80

T 68.2 Degrees Farenheit

EC 103

Turbidity 80

Flow 9.2 cfs

# Spiers Branch

Field Parameters: (August 2015)

pH 7.80

DO 10.9

T 72.6 Degrees Farenheit

EC 221

Turbidity 180

Flow 1.70 cfs

Date Sample Collected $9-8-15$		Time	3:00	
Sample Collected by Zach Goss				
Sample Source				<del></del>
Sample Set Up Date 9-8-15	Time 3:2	5p.~	Analyst 🔬	nd_
Sample Take Out Date $9-9-15$	Time 2:2	5pm	Analyst(	ch_
	Sample Vol	Positive <u>Large Cells</u>	Positive <u>Small Cells</u>	MPN
Sample 1 Location Little Obed	100~1	38_	4	74.9
Sample 2 Location Obed River	100ml	48	12	193.5
Sample 3 Location On e Mile Creek	100 ml	49_	21	365,4
Sample 4 Location Byyd Creek	100nl	42	6	98.8
Sample 5 Location Town Branch	100nl	49	47	2419.6
Sample 6 Location Spiers Branch	100ml	49	39	1046.2

Date Sample Collected 9-2-15  Sample Collected by Zack 6055		Time	2:48,	im
Sample Source			lus.	
Sample Set Up Date 9-2-15	Time _ 3:0	0 p.m	Analyst	20
Sample Take Out Date 9-3 45	Time <u>2:40</u>	Dp.n	Analyst	x)
	Sample Vol	Positive Large Cells	Positive Small Cells	<u>MPN</u>
Sample 1 Location Little Obed	100ml	43	_/0_	118
Sample 2 Location Obed River	100~1	38	_11_	91
Sample 3 Location One Mile Creek	100~1	6		_7_
Sample 4 Location Byrd Creek	100-1	48	18	249
Sample 5 Location Town Branch	100 ml	49	38	980
Sample 6 Location Spiels Branch	100 ml	41_	/3	//3

Date Sample Collected 8-27-15		Time -	2:400	m
Sample Collected by Heath Blay	ock			
Sample Source				
Sample Set Up Date $\frac{8}{27/15}$	Time 2:57	9	Analyst	Ĺ
Sample Take Out Date 8 38 15	Time _ 2:10	ρ	Analystk	4
	Sample Vol	Positive Large Cells	Positive Small Cells	MPN
Sample 1 Location Little Obed	100mL	<u>39</u>	20	120
Sample 2 Location Obed River	100ml	46	10	146
Sample 3 Location One Mile Creek	100 ML	49	16	215
Sample 4 Location Byrd Creek	100m	12	5	35
Sample 5 Location Town Branch	100mL	49	36	866
Sample 6 Location Spiers Branch	100mL	45		139

Date Sample Collected 8-31-15		Time	3:00	
Sample Collected by Zach Goss				
Sample Source				
Sample Set Up Date 8/31/15	Time 3 :	23 p.m	Analyst	カスカ
Sample Take Out Date $9-1-15$	Time 3.	30 pm	Analyst_/C	h
		-		
	Sample Vol	Positive <u>Large Cells</u>	Positive Small Cells	MPN
Sample 1 Location Little Obed	100ml	38	6	79.4
Sample 2 Location Obed River	100mL	24	4_	37
Sample 3 Location One Mile Creek	Looml	_6	6	12
Sample 4 Location Byrd Creek	100 mL	49	48	72419
Sample 5 Location Town Branch	100ml	49	48	72419
Sample 6 Location Spiers Branch	100 ml	33	_7	63

# RECEIVED

SEP 3 0 2015

# **City of Crossville – Stormwater Department**

ENVIRONMENT & CONSERVATION COOKEVILLE FIELD OFFICE

Date Sample Collected 8-25 - 15	<del></del>	Time	12:00	
Sample Collected by Heath Blay	ock +	Zach G	70SS	
Sample Source				
Sample Set Up Date 8-25-15	Time	30 , ~	Analyst	121
Sample Take Out Date 8-26-15	Time _/2 . ! 6	9000	Analyst	) red
	Sample Vol	Positive <u>Large Cells</u>	Positive Small Cells	<u>MPN</u>
Sample 1 Location Little Obed	100ml	38	_8_	84
Sample 2 Location Obed River	100~1	49	32	687
Sample 3 Location One Mile Creek	100~1	47	1.5	192
Sample 4 Location Byrd Creek	100-1	29	7	53
Sample 5 Location Town Branch	100ml	49	43	1,733
Sample 6 Location Spiers Branch	100,1	49	18	308

# RECEIVED

ENVIRONMENT & CONSERVATION COOKEVILLE FIELD OFFICE

# Endangered Species within The City of Crossville's Urban Growth Boundary

Cumberland	Invertebrate Animal	Zoological	Villosa perpurpurea	Purple Bean
Cumberland	Invertebrate Animal	Zoological	<u>Cambarus</u> <u>pristinus</u>	Pristine Crayfish
Cumberland	Vascular Plant	Botanical	Platanthera integrilabia	White Fringeless Orchid
Cumberland	Vascular Plant	Botanical	<u>Potamogeton</u> <u>tennesseensis</u>	Tennessee Pondweed
Cumberland	Vascular Plant	Botanical	<u>Conradina</u> <u>verticillata</u>	Cumberland Rosemary
Cumberland	Vascular Plant	Botanical	<u>Calamovilfa</u> <u>arcuata</u>	Cumberland Sand-Grass
Indiana bat (Myotis sodalis)	Entire	Endangered	Bloomington Ecological Services Field Office	Indiana Bat (Myotis sodalis) Draft Recovery Plan: First Revision
Northern Long-Eared Bat (Myotis septentrionalis)		Threatened	Twin Cities Ecological Services Field Office	

# **New Level 1 Erosion and Sediment Control Certified 2015**

Jeff Brewer

Maintenance Lead Worker

RECEIVED

SEP 3 0 2015

Tom Turner

**Engineering Assistant** 

ENVIRONMENT & CONSERVATION COOKEVILLE FIELD OFFICE

Steve Powell

Maintenance Supervisor

Tim Bolin

Street Department Lead Worker

Stuart Hale

Street Maintenance

Zach Goss

**Engineering Tech Assistant** 

# RECEIVED

# Tennessee Exceptional waters within the City limits of Crossville

# SEP 3 0 2015 ENVIRONMENT & CONSERVATION COOKEVILLE FIELD OFFICE

6010208 E	6010208 E	6010208 E	6010208 E	6010208 E	6010208 E	6010208 E	6010208 E
Emory	Emory	Emory	Emory	Emory	Emory	Emory	Emory
Little Obed Creek	Lake Holiday Unnamed Tributary	Little Obed River	Coon Hollow Branch	Byrd Lake	Byrd Creek including unnamed tributaries in Cumberland Mountain State Park	Threemile Creek including tributaries	Stillhouse Creek
Cumberland	Cumberland	Cumberland	Cumberland	Cumberland	Cumberland	Cumberland	Cumberland
Entirety	From northwest corner of Lake Holiday to origin.	Approximately 0.3 mile upstream Genesis Road to origin.	Portion in Cumberland Mountain State Park.	Within Cumberland Mountain SP.	Portion in Cumberland Mountain State Park including unnamed tributaries.	Entirety including tributaries and headwater branches.	Portion in Cumberland Mountain State Park.
State threatened Zigzag Bladderwort.	State threatened Brown Bog Sedge	State threatened Zigzag Bladderwort and Brown Bog Sedge.	Cumberland Mountain State Park	Cumberland Mountain SP	Cumberland Mountain State Park	Cumberland Mountain State Park, exceptional biological diversity. Evaluation worksheet completed by	Cumberland Mountain State Park
35.9769	35.9559	35.9684	35.897	35.8948	35.8934	35.9177	35.894
-84.9897	-85.0793	-84.9985	-85.004	-85.9997	-84.9922	-85.0461	-85.0343

# 303d List

# SEP 3 0 2015

ENVIRONMENT & CONSERVATION COOKEVILLE FIELD OFFICE

# TN06010208015 - 0900

# **BYRD CREEK**

Cumberland

32.01 Miles

Low Dissolved Oxygen (L)

Upstream Impoundment

Category 5 (impaired for one or more uses).

# TN06010208015 - 0930

# ONE MILE CREEK

Cumberland

8.5 Miles

Loss of biological integrity due to siltation (NA) Escherichia coli (M)

Land Development Collection System Failure

Category 5. EPA approved a siltation TMDL that addresses some of the known pollutants.

# TN06010208013 - 2000

# **OBED RIVER**

Cumberland

1.48 Miles

Flow Alteration (NA) Physical Substrate Habitat Alterations (NA)

Discharges from MS4 area Upstream Impoundment

Below Lake Holiday near Crossville. Category 4A, but flow alteration is 4c (impact not caused by a pollutant). EPA approved a habitat alteration TMDL that addresses the known pollutant.

# 303d List

# TN06010208013 - 0200

# LITTLE OBED RIVER

Cumberland

7.96 Miles

Total Phosphorus Nitrate+Nitrite (M) Loss of biological integrity due to siltation (NA) Escherichia coli (M)

Discharges from MS4 area Collection System Failure

Category 5. EPA approved a siltation TMDL that addresses some of the known pollutants

# TN06010208013\_0310

# **Spiers Creek**

Cumberland

2.4 Miles

# TN06010208013\_0300

# **Town Creek**

Cumberland

1.5 Miles

# **Public Education and Outreach**

2015

Sponsored Cumberland Mtn State Park Trail Run

Online Weather Stations for Public and Schools

Crossville Sustainability Fair

Joining Obed River Watershed Association for a stream clean up in 2015

WaterFest at Meadow Park Lake